

**INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):**

Alverson, DC, Cartagena G. ATALACC and ISTECC Salud 2006  
 Building upon the established Ibero American Science,  
 Technology and Education Consortium (ISTEC) & Formation  
 of an International Network of Networks for Telehealth and  
 Virtual Collaboration. American Telemedicine Association  
 Latin American Caribbean Chapter Symposium, San Diego,  
 CA, May 2006

Alverson D, Hidalgo R, Cartagena G, Sempertegui M, Sklar D. 2006  
 Telehealth River Boats as Floating Clinics in the Amazonian  
 Region of Ecuador. American Telemedicine Association Latin  
 American Caribbean Chapter Symposium, San Diego, CA,  
 May 2006

Alverson D, Hidalgo R, Cartagena G, Sempertegui M, Sklar D. 2006  
 Emerging Paradigms in Mobile Health Care Telehealth  
 River Boats as Floating Clinics in the Amazonian Region of  
 Ecuador. Mobile Health Care Forum 2<sup>nd</sup> Annual Conference,  
 San Diego, CA, May, 2006

Alverson D, Hidalgo R, Cartagena G, Sempertegui M, Sklar D. 2006  
 Floating Telehealth Clinics on the Amazon: Opportunities for  
 Experiences in International Health. UNM Pediatric Grand Rounds,  
 Albuquerque, NM, May, 2006

Alverson DC. Telemedicine/Telehealth: Healthcare in Cyberspace 2006  
 Forming Telehealth Alliances: A Network of Networks Model  
 Implications of New Health Information Technology in the  
 Practice of Medicine. CLSC 6890: Introduction to  
 Telehealth/Telemedicine, University of Colorado HSC, June 2006

Alverson DC. Telesalud Internacional:Formacion de un Red de 2006  
 Redes Internacional para Colaboracion Virtual. Universidad  
 Tecnologica Equinoccial, Quito, Ecuador, June 28, 2006

Alverson DC. Telesalud Internacional: Formación de una Red 2006  
 de Redes Internacional para Colaboración Virtual. V  
 CONFERENCIA ESPACIAL DE LAS AMERICAS. Quito, Ecuador,  
 July 24-26, 2006

Alverson DC. Telesalud Internacional. Cartagena Telemedicina y 2006  
 ATALACC Conference. Cartagena, Colombia. Septiembre 5 2006

Alverson DC Hidalgo R, Cartagena G, Manuel Sempertequí M. 2006  
 Telesalud Internacional: Telemedicina como  
 Parte de la Carrera Internacional y Formación de una Red de  
 Redes Internacional para Colaboración Virtual.  
 Congreso Internacional de Telemedicina Encuentro Nacional de  
 Telemedicina. Bogota, Colombia, September 7, 2006

Alverson DC. The Center for Telehealth and Cybermedicine 2006  
 Research at UNM: Linking New Mexico and the World through  
 Telehealth. UNM Regents, Albuquerque, NM,  
 September 12, 2006

**INVITED EDUCATIONAL LECTURES AND PRESENTATIONS(continued):**

Alverson DC. International Telehealth in Developing Countries: 2006  
 Paradigm Shifts in Sharing Knowledge and Closing Gaps in  
 Health Disparities. UNM ISI Lecture Series. Albuquerque, NM,  
 September 14, 2006

Alverson DC. International Telehealth: Linking the World 2006  
 Through Health Information Technologies as part of  
 International panel. Health Information Technology Summit 2006.  
 Washington DC, September 26, 2006

Alverson DC. Linking New Mexico and the World Through 2006  
 Telehealth: New Paradigms in Using Information Technologies  
 and Telehealth to Close the Gaps in Health Care Access and  
 Knowledge. State CHECS Net Conference for the New Mexico  
 Council for Higher Education Computing/Communication Service  
 (CHECS). Albuquerque, NM, September 28, 2006

Alverson DC. International Telehealth in Developing Countries: 2006  
 Paradigm Shifts in Sharing Knowledge and Closing Gaps in  
 Health Disparities. UNM International Taskforce meeting.  
 Albuquerque, NM, October 10, 2006

Alverson DC. Health Care and Health Education in Cyberspace 2006  
 New Paradigms in Using Information Technologies and  
 Telehealth to Close the Gaps in Health Care Access and  
 Knowledge. National Conference American Medical Writers  
 Association, Albuquerque, NM, October 26, 2006

Alverson DC. Proyecto TOUCH: Simulación Realidad Virtual 2006  
 Interactivo de Inmersión Distribuido para Educación,  
 Entrenamiento, y Evaluación de Rendimiento Independiente  
 a Distancia por Internet2. III Congreso Venezolano Bioingeniería  
 2006, Valencia, Venezuela (via videoconference), November 3,  
 2006

Alverson DC. Telehealth: Closing the Gaps in Health care Access, 2006  
 Education and Knowledge. In Critical Health Areas Panel,  
 National Conference of State Legislators. San Antonio, Texas,  
 December 5, 2006

Alverson DC. Telehealth: Closing the Gaps in Health care Access, 2006  
 Education and Knowledge. In Benefits of Broadband Panel,  
 National Conference of State Legislators. San Antonio, Texas,  
 December 6, 2006

**CLINICAL SERVICE (Through June 2006):****1. Patient Care:****A. Direct Patient Care****1. Prior Ambulatory Care Service:**

Special Baby Clinic: Follow-up clinic for infants and Children at risk for developmental delay or neurologic deficit who received care in UNM Neonatal intensive Care Unit. Met twice monthly and schedules 20-30 patients per clinic. Function as Neonatology Faculty Attending back-up and Consultant.

**2. Inpatient Care**

**a. Attending Neonatologist** in Newborn Intensive Care Unit up to 20-22 weeks/year and later 6-10 wks/year Responsible for average of 35-40 patients with potential in-house 24 hour call while assigned to clinical service. During clinical service assignment, time commitment averages approximately 100 hours/week. The Newborn Intensive Care Unit admits greater than 800 infants/year. While attending, responsible for admission, discharge, and ongoing care of critically ill newborns and support of their families and liaison with other health care providers throughout the State and within the Institution. Involved in performing or supervising a variety of neonatal procedures, including: resuscitation, intubation, mechanical ventilation arterial or venous catheter placement, chest tube placement, exchange transfusion, lumbar puncture, bronchoscopy, pericardial-thora-pericentesis, surfactant and INO administration and other forms of critical care management.

**b. Neonatology ECMO team attending.** Provided physician management and supervision of newborns and infants on extra corporeal membrane oxygenation (heart-lung bypass). Required coverage 24 hrs/day for an average of one week/patient shared with four other ECMO trained physicians. Averaged approximately 12 patients per year.

**B. University/Hospital Committees:**

|   |               |
|---|---------------|
| Perinatal Special Care Advisory Committee                         | 1983 - 86     |
| University of New Mexico Faculty Senate                           | 1984 - 86     |
| UNM Animal Care and Research Committee                            | 1984 - 87     |
| General Clinical Research Advisory Committee                      | 1984 - 90     |
| University of New Mexico School of Medicine                       | 1987 - 88     |
| Committee on Fraudulent Research                                  |               |
| Vice President and Pediatric Department                           | 1988 - 89     |
| Representative, Executive Board,<br>New Mexico Medical Foundation |               |
| University of New Mexico School of Medicine                       | 1988 - 90     |
| Student Research Committee  |               |
| Chairman, UNMH Risk Management/Peer<br>Review Committee           | 1989 - 90     |
| Telemedicine Committee  | 1993- 95      |
| Member at Large, Executive Committee,<br>Medical Staff            | 1993- 96      |
| Prince of Asturias Endowed Chair Search Committee                 | 2001-2002     |
| UNM HPCERC Faculty Review Committee                               | 2001-2002     |
| Chair   |               |
| UNM International Agenda Task Force                               | 2002- present |

**CLINICAL SERVICE (cont.):**

## C. Clinical Administration

1. **Division of Neonatology**

- a. Coordinator, University of New Mexico NBICU Computer Data Collection System, Statistics, Outreach 1983 - 84
- b. Medical Director, University of New Mexico Neonatal Transport Team, 1984 - 88
- c. Director, Division of Neonatology 1988 - 97

Responsible for 60 staff and 12 faculty members, including 9 physicians (up 50% over 5 years). Responsible for nearly \$2 million budget. Since became division director, the program continued to grow and thrive with increasing admissions to Newborn ICU from 606 in FY 88 to 717 in FY 93 (up 18%). The Newborn ICU/ICN/ECN has been above 100% capacity more that 2/3 of the time. The Division has seen an increase in FTE budgeted support from 17.27 in FY88 to 33.55 in FY94 (up 94%). Total available state appropriations have increased from \$1.227 million in FY88 to \$1.774 million in FY 93 (up 45%). Total division budgeted expenses have grown from \$1.182 to \$1.994 million (up 68%). Worked toward establishing zero-balance budgeting in our neonatology program, which best reflects the ongoing and evolving mission of our program.

We were instrumental in introducing new technology including ECMO, High Frequency Ventilation, synchronized and assisted mechanical ventilation, inhaled Nitric Oxide and a neonatal blood gas laboratory.

We assumed full responsibility for our Developmental Care Program, Follow-up and Special Baby Clinic, previously shared in part by University Affiliated Programs (UAP).

We expanded our Neonatal Nurse Practitioner program to provide services on the NBICU/ICN/ECN, integrated with our newborn transport program which completes over 500 newborn transports/year throughout the state using fixed wing air and ground systems.

We expanded our off-campus activities and developed programs in newborn medicine at St. Joseph Healthcare Systems and Lovelace Medical Center, as well as, a quality assurance outreach program with Memorial Medical Center in Las Cruces. We have increased our outreach education encounters with a variety of healthcare systems and providers to over 40/year throughout the state and have instituted training through the Neonatal Resuscitation Program and Perinatal Continuing Program and have continued offering on-site training conferences which include the annual Perinatal Update, "Concepts and Controversies in Perinatal Care", and the annual Neonatal Nursing Conference, "The Amazing Newborn".

We expanded our Neonatology Fellowship program to 3 positions with successful re-accreditation of the program in 1992, having assisted in preparation of the

**CLINICAL SERVICE (cont.):**

reapplication and evaluation by the Residency Review Committee of the AMA. All Neonatology fellows trained in our program have become successfully board certified.

**2. GCRC**

Associate Director of General Clinical Research Center, University of New Mexico School of Medicine, 1986-1990. Assisted in overall medical administration of the GCRC along with the Director and specifically directly responsible for the Newborn scattered program over site which coordinated multiple ongoing clinical research projects led by a variety of clinical investigators. Successfully participated in reapproval of the GCRC by the Division of Research Resources, NIH.

**3. School of Medicine:****a. Telemedicine Committee**

Member of UNM School of Medicine Telemedicine Committee 1993-95 responsible for formulating plans regarding coordination of telemedicine efforts within UNM.

**b. Office of Telemedicine Research/Telemedicine Program**

Appointed as medical director of "Office of Telemedicine Research" 1995. Responsible for developing plans for the mission, goals, objectives, organizational structure and budget for FY 96 based on HB 2 appropriation to the School of Medicine of \$289,000. Currently Medical Director of the Telemedicine Program and Center for Telehealth at the University of New Mexico. In that role, he has been involved in the planning, implementation, research and evaluation of a Telemedicine system for New Mexico, primarily serving its rural communities. He has been a principal investigator on several Telehealth related grants; including projects in rural Telemedicine, NASA and the Office for the Advancement of Telehealth under HRSA, including deployment of immersive interactive virtual reality simulations that allows synchronously collaboration over Internet2 for training and education independent of distance. .

**D. Service/Consultation to other Departments**

OB/Gyn, Maternal Fetal Medicine  
Peds Surgery  
Peds ENT  
Peds Neurology  
Peds Neurosurgery  
Carrie Tingley Hospital

**E. State and National Service**

- |    |  |            |
|----|--|------------|
| 1. | NIH<br>Site Visitor<br>National Institute of Health,<br>GCRC Site Visit Team | 1986       |
| 2. | FDA<br>Presenter before blood products<br>advisory committee                 | 1991, 1993 |

**CLINICAL SERVICE****State and National Service (cont.):**

- |     |   |              |
|-----|---|--------------|
| 3.  | AHA   | 1993         |
|     | National Public Affairs Advisory Committee      |              |
| 4.  | Academy of Pediatrics                           | 1988-1994    |
|     | Council Member –                                |              |
|     | representing New Mexico District VIII           |              |
|     | Section on Perinatal Pediatrics                 |              |
| 5.  | American Telemedicine Association               | 1996-present |
|     | Latin American Caribbean Chapter                | 2005-present |
|     | Secretary for North America                     |              |
| 6.  | New Mexico Bio-preparedness Education           | 2002-present |
|     | Taskforce Team                                  |              |
| 7.  | New Mexico Department of Health                 | 2002         |
|     | Transition Team                                 |              |
| 8.  | Connect New Mexico                              | 1999-present |
|     | Executive Board                                 |              |
| 9.  | New Mexico Telehealth Alliance                  | 2003-present |
|     | Board, Chairman                                 |              |
| 10. | Four Corners Telehealth Consortium              | 2004-present |
|     | Director  | 2005-07      |
| 11. | Advanced Initiatives in Medical Simulation      | 2004-present |
|     | Task Force Member, Board Member                 | 2005-present |
| 12. | Joint Commission for Accreditation Health Care  | 2004-present |
|     | Organization (JCAHO), Member, Ambulatory        |              |
|     | Health Care Professional and Technical Advisory |              |
|     | Committee                                       |              |
| 13. | New Mexico Telehealth Commission                | 2005-present |
|     | Governor Appointed Commissioner                 |              |
| 14. | Center for Telemedicine and e-Health Law        | 2005-present |
|     | Board member                                    |              |
| 15. | American Telemedicine Association               | 2005-present |
|     | Latin American Caribbean Chapter,               |              |
|     | Secretary for North America                     |              |
| 15. | American Telemedicine Association               | 2006-present |
|     | Board of Directors, Board member                |              |

**F. Community Service**

- |    |  |            |
|----|--|------------|
| 1. | American Heart Association, New Mexico Affiliate | 1986 - 88  |
|    | Research Committee, Vice Chairman                |            |
|    | Chairman, Research Committee, American Heart     | 1988 - 90  |
|    | Association, New Mexico Affiliate                |            |
|    | President-Elect, American Heart Association,     | 1990 - 91  |
|    | New Mexico Affiliate                             |            |
|    | President, American Heart Association            | 1991 - 92  |
|    | New Mexico Affiliate                             |            |
|    | Board of Directors                               | 1990 - 97  |
|    | American Heart Association, New Mexico Affiliate |            |
| 2. | March of Dimes                                   | 1993 -1994 |
|    | Chairman, March of Dimes New Mexico Chapter      |            |
| 3. | Cystic Fibrosis Foundation                       | 1992 -1994 |
|    | Board of Directors                               |            |
|    | New Mexico Cystic Fibrosis Foundation            |            |

**CLINICAL SERVICE****Community Service (cont.):**

- |     |   |                 |
|-----|---|-----------------|
| 4.  | Albuquerque Children's Museum                     | 1992 - 1996     |
|     | Board of Directors, Albuquerque Children's Museum |                 |
|     | Chairman, Board of Directors                      | 1993 -1994      |
|     | Albuquerque Children's Museum                     |                 |
| 5.  | KOB-TV, "For Your Family's Health"                | 1990-present    |
|     | Host, KOB-TV "4 Your Family's Health"             |                 |
| 6.  | Academy of Radio and Television                   | 1992            |
|     | Health Commentators                               |                 |
| 7.  | GAMA  |                 |
|     | Greater Albuquerque Medical Association           | 1990 -present   |
|     | Physician Support Committee                       |                 |
|     | Secretary   | 1994            |
| 8.  | New Mexico Pediatric Society                      | 1989 -present   |
|     | Physician Support Group                           |                 |
|     | Chair, Public Relations                           | 1998-present    |
| 9.  | Judge, NWNM Regional Science and                  | 1988, 1993-1997 |
|     | Engineering Fair                                  | 2002            |
| 10. | Board of Directors                                | 1993-1996       |
|     | New Mexico Trauma Society                         |                 |
| 11. | "New Vision" Albuquerque Children's Museum/       | 1995 - 1997     |
|     | Explora Board of Directors                        |                 |
| 12. | Albuquerque Art Alliance                          | 1996            |
|     | Board of Directors                                |                 |
| 13. | Norwest Bank Leadership Council                   | 1996            |
| 14. | Bosque Preparatory School                         | 1999-present    |
|     | Board of Trustees                                 |                 |

**RESEARCH:****A. GRANTS****Extramural Grants**

1. "Noninvasive Assessment of Myocardial Performance"  
American Heart Association  
Principle Investigator, July 1982-June 1983, \$10,000
2. "Noninvasive Assessment of Myocardial Contractility"  
American Heart association  
Principle Investigator, July 1984-June 1985
3. "Noninvasive Assessment of Myocardial Contractility(Part II)" American Heart Association  
Principle Investigator, May, 1986 - June, 1987  
\$10,000
4. "General Clinical Research Center and Newborn-Pediatric Scatter-bed Program-  
University of New Mexico/Renewal Application"  
National Institutes of Health  
Associate Director, , Division of Research Resources  
Resource Reapproved Dec 1, 1987-Nov 30, 1992  
\$1,184,160 (Dec 1, 1987-Nov 30,1988)GCRC
5. "Digital Processing Techniques for Real-Time Assessment of Pulsed Doppler Derived Velocity Signals"  
American Heart Association  
Principle Investigator, July 1988-June 1989  
\$10,000
6. "The Impact of Recombinant Erythropoietin (r-HuEPO) on Systemic Oxygen Transport, Oxygen Delivery and Oxygen Utilization in Preterm Infants" in Collaboration in Preterm Infants" with the "Multi-center Investigation IND Trial of r-HuEPO in Anemia of Prematurity"  
R.W. Johnson Pharmaceutical Research Institute  
Principle Investigator, UNM site  
\$15,000
7. "Cortisol and Cardiac Function in the Newborn Infant"  
American Heart Association, NM Affiliate  
Co-investigator  
Submitted Dec, 1994. Funded July, 1995  
\$30,000 x 2 yrs
8. "New Mexico Telemedicine Network"  
Health Resources and Services Administration  
Office of Rural Health Policy  
Principle Investigator  
Submitted June 1997/Funded 9/30/97  
\$1,055,553 over 3 years with 1year extension: 9/30/97-8/31/01



**RESEARCH:****GRANTS****Extramural Grants (continued)**

9. "The Telemedicine Virtual Collaboratory"  
NASA-Ames Research Center  
Principle investigator  
Submitted July 1999/funded Oct 1, 1999  
\$56,000 over 4 months; Oct 1, 1999-January 31, 2000  
\$60,047 over 6 months (IPA): Feb 1 –July 31, 2000  
\$30,000 over 3 months VCU: Aug 1 – October 31, 2000
10. "The Efficacy of Recombinant Erythropoietin in Infants with Congenital Heart Disease"  
American Heart Association, NM Affiliate  
Co-investigator  
Funded July, 2000 – June 2002  
\$50,000 x 2 yrs
11. "The TOUCH Project" Phase I  
Health Resources and Services Administration  
Office for the Advancement of Telehealth  
Principle Investigator  
Funding committed for FYI 2000  
\$1,000,000; Oct 1, 1999, Funded at \$895,000/12 months starting August 1, 2000-  
July 31, 2001
12. "UNM Laboratory for Community Health Assessment and Incident Response"  
Defense Advanced Research Projects Agency, Department of Defense  
Co-investigator  
Funding Committed for FY 2001  
\$1,250,000 over 2 years; 9/30/00- 9/29/02  
Sub-project: Knowledge-Based Expert Systems using Respiratory Distress in  
Newborns as a Model, Phase I \$30,000; July 1-Sept 30, 2001
13. "The TOUCH Project" Phase II  
Health Resources and Services Administration  
Office for the Advancement of Telehealth  
Principle Investigator  
Funded at \$720,000/12 months starting August 1, 2001- July 31, 2002
14. "The TOUCH Project" Phase III  
Health Resources and Services Administration  
Office for the Advancement of Telehealth  
Principle Investigator  
Funded at \$482,500/12 months starting August 1, 2002- July 31, 2003
15. "The TOUCH Project" Phase IV  
Health Resources and Services Administration  
Office for the Advancement of Telehealth  
Principle Investigator  
Funded at \$962,500/12 months starting Sep. 1, 2003 – Aug. 31, 2004

**RESEARCH:**

**GRANTS**

**Extramural Grants (continued)**

16. "Pacific Telehealth and Technology Hui, Virtual Environment Acquisition Development"  
Department of Veterans Affairs  
Principle Investigator  
Funded at \$199,999/14 months, Nov.1, 2002 – Dec. 31, 2003
17. "Pacific Telehealth and Technology Hui, Virtual Environment Acquisition Development"  
Department of Veterans Affairs  
Principle Investigator  
Extension \$25,000/12 months, January 1, 2004- August 31, 2004
18. "Pacific Telehealth and Technology Hui, Virtual Environment Acquisition Development"  
Department of Veterans Affairs  
Principle Investigator  
\$199,999/12 months, September 1, 2004- August 31, 2005
19. "Validation and Verification of a Distributed Immersive Virtual Environment for Medical Education"  
USARMC TATRC  
Co-Investigator  
\$199,999/12 months, March 1, 2004-March 1, 2005
20. "Project REACH (Rural Early Access to Children's Health)"  
Office for the Advancement of Telehealth  
Health Resources and Services Administration  
Health and Human Services  
Senior Investigator  
September 2003-2006
21. "Project ECHO (Extension Community Health Outreach)"  
Agency for Health Research and Quality  
National Institutes of Health  
Senior Investigator  
September 2004

**Intramural Research Grants**

1. "Noninvasive Pulsed Doppler Measurement of Cardiac Output in Neonates and Children"  
UNM, GCRC  
Principle Investigator, May 1981-1993
2. "Comparative Hemodynamic Effects of Dopamine and Dobutamine in the Human Neonate"  
UNM, GCRC, January, 1984
3. "Collaborative Study of High Frequency Ventilation in Newborns with Pulmonary Interstitial Emphysema"  
UNM, GCRC  
Principle Investigator, UNM site  
April 1987, October 1991- October 1993
4. "The Deceleration Phase of Ascending Aortic and Pulmonary Artery Flow Velocity and their Relationship to Vascular Resistance" UNM, Dept. of Pediatrics Research Fund, Principle Investigator  
March 1988
5. "The Effect of Glucose on Hypoxic Induced Brain Injury in The Developing Rat"  
UNM, Dept. of Pediatrics  
July 1990
6. "Randomized Trial of High Frequency Jet Ventilation for Severe Respiratory Distress Syndrome-(Multi-Center Study)"  
UNM, GCRC  
Principle Investigator, UNM site  
November, 1993
7. "A Pilot Study on Impact of Video Phone Technology on the Emotional Well Being of Pediatric Oncology Patients Who are Separated from their Families" Faculty sponsor for UNM Medical Student, Claire Gogal August, 2001- May, 2004
8. "Reification of Abstract Concepts in Medical Education" Faculty sponsor for UNM Medical Student, Rex Baker August, 2002- May 2004

**RESEARCH ACTIVITY OVERVIEW**

Dr. Alverson is a tenured Professor of Pediatrics and OB/Gyn at the University of New Mexico Health Sciences Center and was the Director of the Division of Neonatology and also co-director of the NIH supported GCRC. He has been actively involved in clinical research related to hemodynamics, oxygen delivery and extraction concepts in the neonate with specific expertise in the application of non-invasive Doppler ultrasound in the determination of cardiac output and blood flow velocity. These techniques have been used in understanding better the relationship of hemodynamics in neonatal development and disease. In addition, he was involved in establishing a research model for studying the effects of hypoxia on the developing brain using a perfusion system for neonatal rat brain slices and NMR spectroscopy. His research has entailed several individual and local/national collaborative research projects and publications.

More recently, he has focused efforts on the evaluation of Telemedicine and its clinical and cost effectiveness in providing health care services in rural New Mexico, as well as innovations in applying advanced computing to Telehealth for training, education and virtual Telemedicine clinics involving collaborative projects with NASA. In addition, he has worked with University of Hawaii and High Performance Computing Centers at UNM and Maui, the Pacific Telehealth and Technology HUI at Tripler AMC/VA, and recently with Uniformed Services University for the Health Sciences and the Telemedicine and Advanced Technology Research Center (TATRC) for the Army Medical Research and Materiel Command using distributed virtual reality simulations for learning and training via Internet2. He is also involved in International Telehealth and Advanced Technology collaborations, particularly with Latin America, Australia and New Zealand.

**REVIEWER for Scientific Journals:**

1. Journal of Pediatrics
2. Pediatrics
3. Pediatric Research
4. American Journal of Diseases of Children
5. Journal of Perinatology
6. American Journal of Obstetrics and Gynecology
7. Academic Psychiatry
8. Telemedicine Journal and e-Health
9. Journal of telemedicine and Telecare

**PUBLICATIONS:**

1. Alverson DC, Chase P: Systemic lupus erythematosus in childhood presenting as hyperlipoproteinemia. *Journal of Pediatrics* 1977;91:72.
2. Alverson DC, Eldridge MW, Dillon T, Yabek SM, Berman W, Jr.: Noninvasive pulsed Doppler determination of cardiac output in neonates and children. *Journal of Pediatrics* , 1982;101:46-50.
3. Alverson DC, Eldridge MW, Johnson JD, Burstein RL, Papile LA, Dillon T, Yabek SM, Berman W, Jr.: Effect of patent ductus arteriosus on left ventricular output in premature infants. *Journal of Pediatrics* 1983;102:754-757.
4. Alverson DC, Johnson JD, Papile LA, Koffler H, Berman W, Jr.: Radionuclide angiography in evaluation of PDA. *Journal of Pediatrics* 1983;103:172.
5. Alverson DC, Eldridge MW, Johnson JD, Aldrich M, Angelus P, Berman W, Jr.: Noninvasive measurement of cardiac output in healthy preterm and term newborn infants. *American Journal of Perinatology* 1984;1:148-151.
6. Alverson DC, Eldridge MW, Aldrich M, Werner S, Angelus P, Berman W, Jr.: Effect of patent ductus arteriosus on lower extremity blood flow velocity patterns in preterm infants. *American Journal of Perinatology* 1984;1:216-222.
7. Alverson DC: Noninvasive measurement of cardiac output in the newborn. *Journal of Perinatology* 1984;4:16-20.
8. Alverson DC, Eldridge MW, Johnson JD, Burstein R, Papile LA, Dillon T, Yabek S, Berman W, Jr.: Einfluss durch persistierenden ductus art. botalli auf das linksventrikuläre Schlagvolumen beim fruhgeborenen. *Extracta Gynaecologia* 1984;8:273-275.
9. Berman W, Jr., Alverson DC: Assessment of hemodynamic function with pulsed Doppler ultrasound. *Journal of the American College of Cardiology* 1989;5:104S-112S.
10. Alverson DC: Neonatal cardiac output measurement using pulsed Doppler ultrasound in Symposium on Noninvasive Neonatal Diagnosis. *Clinics in Perinatology* 1985;12:101-127.
11. Kurens M, Blomquist T, Alverson DC: Computer analysis of pulsed Doppler aortic flow velocity. *Proceedings of the Eighth Annual Conference of the IEEE/Engineering in Medicine and Biology Society* 1986;1:163-166.
12. Swetnam SM, Yabek SM, Alverson DC: Hemodynamic consequences of neonatal polycythemia. *Journal of Pediatrics* 1987;110:443-7.
13. Berman W, Jr., Alverson DC, Christensen D, Intress C: Ouabain effects on oxygen physiology in anemic lambs *Pediatric Research* 1987;21:447-52.
14. Alverson DC, Blomquist T, Eldridge MW, Berman W, Jr.: Assessment of myocardial contractility in dogs using pulsed Doppler ultrasound. *Journal of Cardiovascular Ultrasonography* 1987;6:77-83.
15. Alverson DC, Aldrich M, Angelus P, Backstrom C, Werner S: Longitudinal trends in left ventricular cardiac output in healthy infants over the first year of life. *Journal of Ultrasound in Medicine* 1987; 6:519-524.

**PUBLICATIONS(continued):**

16. Alverson DC: Pulsed Doppler Assessment of Ascending Aortic Flow Velocity in Newborns and Infants: Clinical Application. *Echocardiography* 1988;5:1-22.
17. Claflin KS, Alverson DC, Pathak D, Angelus P, Backstrom C, Werner S: Cardiac output determinations in the newborn: reproducibility of the pulsed Doppler velocity measurement. *Journal of Ultrasound in Medicine* 1988;7:311-315.
18. Alverson DC, Isken VH, Cohen RS: The effect of booster blood transfusions on oxygen utilization in infants with bronchopulmonary dysplasia. *Journal of Pediatrics* 1988;113:722-726.
19. Alverson DC, Cohen RS, Isken VHA: Determination of Oxygen Utilization in Neonates and Infants. *Proceedings of the 3rd International Conference on Fetal and Neonatal Physiological Measurements III*, Gennser G, Marsal K, Svenningsen N, Lindstrom K (eds) 1989;459-462.
20. Swetnam SM, Yabek SM, Alverson DC: The Application of Low Energy Laser-Doppler Velocimetry to the Assessment of Cutaneous Blood Flow in Neonates. *Proceedings of the 3rd International Conference on Fetal and Neonatal Physiological Measurements III*, Gennser G, Marsal K, Svenningsen N, Lindstrom K (eds), 1989;531-533.
21. Kurens M, Blomquist T, Alverson DC: Digital Processing Techniques for Real-Time (RT) Assessment of Pulsed Doppler (PD) Derived Aortic Velocity Signals and Determination of Acceleration Time (Tac). *Proceedings of the 3rd International Conference on Fetal and Neonatal Physiological Measurements, III*, Gennser G, Marsal K, Svenningsen N, Lindstrom K (eds), , 1989;47-51.
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